## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/13189

A. CLASSII	FICATION OF SUBJECT MATTER C1 B01J27/224, B01D53/86, B01	J35/04, C04B41/85	
According to	International Patent Classification (IPC) or to both nat	ional classification and IPC	·
B FIELDS	SEARCHED		•
Minimum do	ocumentation searched (classification system followed b	by classification symbols)	,
Int.	Cl <sup>7</sup> B01J21/00-38/74, B01D53/86	, B01D53/94	
Dogumentet	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched
Jitsu	iyo Shinan Koho 1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai	Jitsuyo Shinan Koho 1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004
Electronic d	ata base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
X	US 2002/4455 A1 (NAKANISHI,		1,5
Y	10 January, 2002 (10.01.02),		2
l	Claims 1, 7, 10, 25; Par. Nos & JP 2002-59009 A	. [0044], [0074]	
	Claims 1, 7, 10, 25; Par. Nos	. [0032], [0063]	
Y	JP 2002-201082 A (NGK Insula	tors Ltd )	2
1	16 July, 2002 (16.07.02),		_
	Claims 1, 2, 5; Par. No. [000	1]	,
	& EP 1277714 Al Claims 1, 2, 5; Par. No. [000	1]	
	& US 2003/134084 A1		
,		-	
Further	documents are listed in the continuation of Box C.	Sce patent family annex.	
* Special categories of cited documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to			
considered to be of particular relevance understand the principle or theory underlying the invention			
date		considered novel or cannot be conside step when the document is taken alone	red to involve an inventive
cited to	nent which may throw doubts on priority claim(s) or which is o establish the publication date of another citation or other	"Y" document of particular relevance; the considered to involve an inventive ste	claimed invention cannot be
	l reason (as specified) lent referring to an oral disclosure, use, exhibition or other	combined with one or more other such	documents, such
	nent published prior to the international filing date but later ne priority date claimed	"&" document member of the same patent	
Date of the actual completion of the international search  Date of mailing of the international search report			
16 .	January, 2004 (16.01.04)	2, January, 2004 (.	21.01.041
Nome and	nailing address of the ISA/	Authorized officer	
Name and mailing address of the ISA/ Japanese Patent Office			
Facsimile No.		Telephone No.	

## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/13189

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	EP 1078678 A2 (MITSUBISHI JIDOSHA KOGYO KABUSHIKI KAISHA), 28 February, 2001 (28.02.01), Claims 8, 16; Par. Nos. [0021], [0041] to [0043] & JP 2001-129402 A Claim 1; Par. Nos. [0018], [0019], [0023], [0024] & US 6537946 B1	3,4 6-8
A	JP 2002-234779 A (NGK Insulators, Ltd.), 23 August, 2002 (23.08.02), Claims 13, 14, 24; Par. Nos. [0001], [0044] & EP 1364930 A1 Claims 13, 14, 24; Par. Nos. [0001], [0044] & US 2003/108458 A1	
	·	
		· -·
}		
-		
1		